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June 1978

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

Monthly Activities Report of the Air Quality Bureau

STATE DOCUMENTS COLLECTION

AUG 15 1978

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Helena, Montana 59601

June, 1978

1. Highlights:

The Eastern Montana Energy Grant was finalized and submitted to EPA.
Work is progressing on the Montana Air Pollution Study.

2. Ambient Air Quality Network:

a. Standards Exceeded

SO ₂ violations - Helena area	Microwave	East Station	Broudy
State 1-hour	1	0	0
State 24-hour	0	0	0
Federal 3-hour	0	0	0
Federal 24-hour	0	0	0

Hi-vol Standards Exceeded

City	Station	150 ug/m ³ St. Std.	200 ug/m ³ Fed. Std.
Col. Falls	Anders	208	208
Col. Falls	Anders	190	---
E. Helena	Hastie	170	---
E. Helena	Hastie	157	---
Kalispell	Sherman	150	---
Kalispell	Sherman	225	225
Libby	Brown	156	---
Libby	Brown	238	238

b. Air Stagnation Advisories - None in June

c. Laboratory Status

Total Determinations for Month	1568
Total Samples for Month	221

3. Permits and Tax Credits:

a. Construction Permits - Applied for

Hilde Construction, Carter Co., portable gravel crusher and hot mix asphalt plant
Beartooth Coal Company, Carbon Co., conveyors, belts, coal crusher
Evans Products Company, Missoula, double head sander
Exxon Company, Billings, floating roof cover, \$243,800
Zook Brothers, Ravalli Co., portable hot mix asphalt plant
Empire Sand & Gravel, Stillwater Co., portable gravel crusher
Empire Sand & Gravel, Stillwater Co., portable asphalt batch plant
Vinson Timber Products, Trout Creek, tepee burner

3. Construction Permits - Cont.

Meyer Construction, Sweetgrass Co., portable gravel crusher
Meyer Construction, Sweetgrass Co., Boeing 400 drum dryer
Meyer Construction Co., Chouteau Co., hot mix asphalt plant
Evans Products Company, Missoula, baghouse
Great Western Sugar, Billings, fly ash collectors, \$124,460

Construction Permits, Approved

Zook Brothers, Cascade, Teton and Lewis & Clark Counties, portable gravel crusher
Westmoreland Resources, Big Horn Co., coal-fired boiler
Westmoreland Resources, Big Horn Co., truck dump, crusher, storage barn, tipple, conveyor belts
Hilde Construction, Rosebud Co., portable gravel crusher and hot mix plant
R-Lite Concrete Products, Granite Co., portable gravel crusher
Hilde Construction, Rosebud Co., portable gravel crusher and hot mix asphalt plant

b. Operating Permits - None in June

c. Tax Credits

Anaconda Aluminum, Columbia Falls, flotation equipment on casting

Exxon and Cenex have submitted a total of 33 applications. Four of Cenex's ten have been approved, ten of Exxon's have been acted upon, with four denials and six approvals. The others were incomplete.

4. Variance Status:

a. Current

Anaconda Aluminum Co., Columbia Falls, F⁻ and particulate, expired June 30, 1978; hearing scheduled for September 8, 1978.

Anaconda Company, Anaconda, SO₂, expired June 30, 1978.

Anaconda Company, Anaconda, visible emissions and process weight rules variance expired June 30, 1978.

b. New - None in June

5. Enforcement Action:

a. Citations

Castle Mountain Lumber, White Sulphur Springs, 780623-BR-1, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burners)

Spring Creek Forest Products, Judith Gap, 780620-BR-1, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burners)

5. Enforcement Actions, Cont.

Baker Landfill, Baker, 780622-BR-1, landfill in violation of rule 16-2.14(1)-S1490 (Open Burning Restrictions)

Spring Creek Forest Products, Judith Gap, 780616-FG-1, tepee burner in violation of rules 16-2.14(1)-S14030 and S1400 (Wood Waste Burners and Permits)

b. Notices of Violation - None in June

c. Order for Corrective Action - None in June

d. Court Actions:

Gallatin County served Roland Nuss (Heritage Simmental) papers for violating rule 16-2.14(1)-S1400, Permits, Construction and Operation of Equipment)

6. Tepee Burners and Open Burning:

No. at start	41
New starts	0
Shutdowns	0
No. at end	41

Burning Permits:

Kalispell Office	112	Sanders County	104
Cascade County	6	Yellowstone County	49
Lake County	26	Rest of State	571
Missoula County	18	Total	886

7. Source Tests Performed:

a. Agency Source Tests - None in June

b. Non-Agency Source Tests

St. Regis, Libby, boiler #7, by Alsid-Snowden & Associates, in compliance
Hoerner Waldorf, Missoula, review of compliance tests on #3 lime kiln,

#3 smelt tank, in compliance

EERC, Billings, tested Boeing Drum Dryer of Zook Brothers for compliance
with NSPS for batch plants

Zook Brothers Construction, East Helena, asphalt batch plant, performed
by EERC, passed mass emissions but failed opacity

8. Field Investigations:

Sorenson Brothers, Drummond, tepee burner, re-inspection

Drummond Landfill, open burning, re-inspection

Louisiana Pacific, tepee burner, Deer Lodge, inspection

Montana Pole Co., Butte, tepee burner, citation issued

American Asphalt, Kalispell, documentation

Peter Kewit, Kalispell, inspection, in compliance

Plum Creek boiler system, Columbia Falls, replacement of scrubber

8. Field Investigations, Cont.

Helena Valley, road, fugitive emissions, investigation
Helena Sand and Gravel, Helena, asphalt plant, investigation
Zook Brothers, Helena, asphalt plant, observed source test
Landfill, Harlowton, inspection
Spring Creek Lumber, Judith Gap, tepee burner, citation issued
U. S. Gypsum, Lewistown, inspection
Brand S Lumber, Lewistown, tepee burner, inspection
Richey, Landfill, response to complaint of open burning
Lambert, Landfill, response to open burning complaint
Baker, landfill, response to open burning complaint, citation issued
Castle Mountain Lumber, White Sulphur Springs, tepee burner, inspection,
citation issued
Anaconda Aluminum, Columbia Falls, inspection - tour with Board of Health
members
Pfizer Talc, Dillon, inspection
Brand S Lumber, Livingston, inspection
Willow Creek, Livingston, inspection
West Yellowstone, dusty streets, inspection
Zook Brothers Construction, East Helena, batch plant, inspection
Willow Creek Lumber, Livingston, re-inspection
Burkland Studs, Livingston, investigation
Brand S Lumber, Livingston, follow-up inspection
Big Horn Limestone, Warren, limestone mining, crushing, pulverizing,
drying and bagging, inspection
Laurel, evaluating SO₂ SIP submittal for refinery
Great Western Sugar, Laurel, boiler plant and flue gas scrubbing system,
inspection
Bear Tooth Coal Company, inspection
Big Horn Calcium Company, inspection

9. Complaints:

Billings, brown haze, apparently caused by inversion
Lewis & Clark County, Helena valley road, fugitive dust, investigation
Anaconda, landfill, open burning, inspection pending
Anaconda, lime quarry, fugitive dust, follow-up pending
Livingston, Brand S Lumber, particulate fallout, investigation
East Helena, Zook Brothers Construction, excessive dust, inspection
East Helena, Lake Helena Road, fugitive dust, investigation
City of Helena, odor from roof tarring machine, machine will be moved
Anaconda, Baroni Construction & General Contractors, excessive dust,
investigation
Livingston, Willow Creek Lumber, Livingston, fallout, investigation
ASARCO, Inc., East Helena, excessive dark plume, acute malfunction,
investigation (three complaints)
Burning barrel on Shady Lane, Kalispell, eliminated
Kalispell, C & C Plywood, dust in air, investigation, water down area,
is solving problem

10. Data Processing Services:

- a. Ambient data summary - no significant activity

10. Data Processing Services, Cont.

b. Emission Inventory Status:

Update completed for area point sources in Butte

- c. Prevention of Significant Deterioration - met with groups to discuss and review new regulations
- c. Modeling - no activities in June

11. Environmental Impact Statements:

a. Agency impact determinations - None in June

b. Other Agency EIS's Reviewed:

Beartooth Coal Company, Red Lodge, underground coal mine, Department of State Lands.

Lolo National Forest Fire Management Plan, U. S. Forest Service

12. Status of Studies, Contracts and Reports:

Poplar River Study, operating according to schedule
Flathead Environmental Study, partial operation begun, new equipment is due to arrive so that sites can be completed

Columbia Falls Study, analysis continuing, report due fall of 1978
MAPS, Historical Emission Inventory, contractor will review and recommend on Phase I results

MAPS Emission Inventory Update and Improvement report due end of July
ASARCO-Troy, sampling continuing, approximately 95% complete

13. Schools and Training:

Smoke generator operator's school, Athens, Georgia

14. Public Hearings and Meetings:

a. Public Hearings Held

Public meeting, Three Forks, regarding construction permit application to install and operate chicken manure dryer

b. Meetings Attended

Exxon, Helena, regarding applications for certification of property for taxation

Fish and Game Department, Helena, installation of new smoke generator

Sheriff, Harlowton, open burning

Sanitarian, Lewistown, open burning

Sheriff, Lewistown, open burning

Fire Chief, Lewistown, open burning

Richey, mayor, open burning

Mayor, Lambert, open burning

14. Public Hearings and Meetings, Cont.

Sheriff, Prairie County, open burning
Sanitarian, Dawson County, open burning
Sanitarian, Custer County, open burning
Sheriff, Treasure County, open burning
Sheriff, Musselshell County, open burning
Oil representative, open burning
MDU, Helena, regarding wet scrubber at Sidney
Stauffer Chemical, Helena, to discuss fluoride situation at Ramsey
Western Environmental Trade Association and Stockgrowers Association
to discuss PSD
Flathead Environmental Steering Committee, Polson, to discuss meteorology
visibility, and air quality
Anaconda Company staff, discuss upper air study
ISP, Helena, information systems
Evans Products, Helena, sander and veneer dryer
Columbia Falls, Anaconda Aluminum, progress with schedule
Missoula County Health Department, Helena, local program
PEDCo, Helena, SIP work
Legal Division, Evans Products enforcement

c. Intra-staff meetings

Staff meetings with Air Quality Bureau
Project Managers, SIP
Project Managers, MAPS
Project Managers, MAAQS

15. Public Information Requests:

Rules 8
Clean Air Act 2
Other 4
Open Burning Pamphlets - 1000

16. None

17. Other - None

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

May 1978

Page 1 of 2

Pollutant: Miscellaneous Indicators		Units:				
AREA		HIGH READING			ARITHMETIC AVER.	
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days
144	Fluoride Papers- Duchibons Mt. Box Flathead Co. Anaconda South Flathead Co. Glacier Park #1 Glac. Nat. Park Glacier Park #2 Glac. Nat. Park Glacier Park #9 Glac. Nat. Park	Mg/sq. cm./30 days				
144	Fluoride Plates- Anaconda South Flathead Co. Trailer-NAC Flathead Co. Glacier Park #1 Glac. Nat. Park Glacier Park #2 Glac. Nat. Park Glacier Park #9 Glac. Nat. Park	Mg/sq. cm./30 days				

*** Data unavailable at time of report.

Pollutant: Miscellaneous Rubbler Data		Units: ppm				
AREA		HIGH READING			ARITHMETIC AVER.	
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days
145	Sulfur Dioxide Scobey Daniels Co. Fort Peck McDane Co. Lane Deer Rosebud Co.	0.0	0.0	0.0	0.0	5
145	Nitrogen Dioxide Scobey Daniels Co. Fort Peck McDane Co. Lane Deer Rosebud Co.	0.0	0.0	0.0	0.0	5

** No valid sample submitted

Pollutant: Miscellaneous Indicators		Units:				
AREA		HIGH READING			ARITHMETIC AVER.	
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days
141	Dust Fall- tons/ Mountain States Great Falls Fire Sta #1 Great Falls Fairgrounds Great Falls 10th Ave. South Great Falls Sulfation Rate- #/Dy/100	sq. mile				
140	3/8 mi. NE Coop Billings E. of Laurel Billings Hi-Ball Trucking Billings Stock Car Track Great Falls Phillips Ref. N1 Great Falls Phillips Ref. E. Great Falls Microwave East Helena 212 E. Pacific East Helena East Stock Sta Last Helena Broadway Ranch 525 Prickly Pear	sq. mi				

* Site no longer submitting data

** No valid samples submitted

Pollutant: Total Suspended Particulate		Units: $\mu\text{b}/\text{cu meter}$				
AREA		HIGH READING			ARITHMETIC AVER.	
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days
140	Morton-Decker 818 Horn Co. Warren Ranch Big Horn Co. Lockwood School Billings KGH Billings City Hall Billings Grand Ave. Sch Billings Laurel Jr. High Laurel Hospital Roof Great Falls Fire Sta #1 Great Falls Hwy Jct Anaconda Lincoln School #1 Anaconda Lincoln School #2 Anaconda McKinley Res. Granite Co.	33	209	209	65.1	5
141	Billings Great Falls Fire Sta #1 Great Falls Hwy Jct Anaconda Lincoln School #1 Anaconda Lincoln School #2 Anaconda McKinley Res. Granite Co.	20	68	108	18.8	5

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
MONTHLY SUMMARY OF AIR QUALITY DATA

May 1978

Page 2 of 2

Pollutant: Total Suspended Particulate Units: ug/cu meter

	AREA	HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
142	Greeley School Butte	86	195	233	89.1	5	
	Gilman Constr. Butte	191	191	297	66.4	5	
	Atkins Res Walkerville						
	Richer Res Silver Bow Co.	14	53	53	18.9	5	
	Tierney Res Silver Bow Co.	23	68	89	24.8	5	
	Hegben Park #1 Butte	29	29	29	20.0	1	
	Hegben Park #2 Butte	106	106	106	59.7	1	
	Microwave Jefferson Co.	25	52	64	24.0	5	
	212 E. Pacific Lewis & Clk Co	160	163	192	85.5	5	1 exc. Fed Sec St
	Kober Res Three Forks	184	226	309	67.8	5	1 exc. Fed Sec St
	Cogswell Bldg #1 Helena	65	234	234	62.8	5	
143	Glendive Oawson Co.	28	28	51	28.0	1	
	Lane Oeer Rosebud Co.						
	Fort Pock McCone Co.	41	41	53	12.4	5	
	Broadux Powder Riv. Co	27	51	51	15.5	5	

* Site no longer submitting data
** No valid samples

Pollutant: Total Suspended Particulate Units: ug/cu meter

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
144	BN Site Colstrip						
	Border Site Scooby	23	25	65	12.1	5	
	Anders Res Col. Falls	208	426	467	142.4	5	1 exc Mt.Pri.Std
	Courthouse Roof Missoula	104	390	390	101.0	5	4 exc Fed.Sec.St.
	Lion's Park Missoula	99	676	676	129.1	5	
	JB Field Missoula	86	154	180	52.5	5	
	Hoerner Wald #1 Missoula Co.	30	144	144	31.1	5	
	Hoerner Wald #2 Missoula Co.	38	135	135	32.0	5	
	Hoerner Wald #3 Missoula Co.	31	86	86	23.5	5	
	Kalispell Flathead Co.	411	411	411	105.9	5	1 exc Fed.Pri.St
	Troy-Brown Lincoln Co.	81	247	247	82.3	5	
	Troy-Sampson Lincoln Co.						
	Libby-Brown Lincoln Co.	205	394	394	135.2	5	1 exc Mt.Pri.Std
	Courthouse Lawn Missoula	116	457	457	121.9	5	

** No valid samples

Pollutant: Miscellaneous Continuous Data Units: ppm

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
	<u>Carbon Monoxide</u>						
140	27th & Montana Billings			***			
141	10th Ave. South Great Falls	7.50	38.40	38.40	2.700	5	
142	Alpine West Butte			***			
144	Malfunction Jct. Missoula			***			
	Lion's Park Missoula			*			
	<u>Hydrocarbons</u>						
140	27th & Montana Billings			***			
142	Hegben Park Butte	3.10	4.40	4.40	1.877	3	
144	Lion's Park Missoula	2.88	5.00	7.62	1.995	5	
	<u>Nitrogen Oxide</u>						
140	27th & Montana Billings			***			
142	Hegben Park Butte	0.04	0.04	0.04	0.005	2	
144	Lion's Park Missoula	0.07	0.10	0.10	0.018	5	

* Site no longer submitting data
*** Data unavailable at time of report

Pollutant: Miscellaneous Continuous Data Units: ppm

AREA		HIGH READING			ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Data	
140	Ozone 27th & Montana Billings			---			
142	Hegben Park Butte	0.07	0.07	0.07	0.035	2	
144	Lion's Park Missoula	0.09	0.09	0.09	0.018	5	
140	Sulfur Dioxide 27th & Montana Billings			---			
142	Laurel Farm Billings			---			
	East Stack East Helena			---			
	Microwave East Helena	0.34	0.34	1.40	0.009	5	
	Broudy Ranch East Helena	0.11	0.80	0.88	0.002	5	
	C-Hill Anaconda			---			
	Hiway Jct. Anaconda	0.0	2.00	2.00	0.060	5	
	Hill Creek Anaconda	0.0	1.08	1.68	0.034	5	
	Lincoln School Anaconda	0.0	1.21	1.21	0.024	3	

*** Data unavailable at time of report
**** Equipment down - no data

